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NiceZyme View of ENZYME: EC 4.2.1.92

Official Name**Hydroperoxide dehydratase.****Alternative Name(s)****Allene oxide synthase.****Hydroperoxide isomerase.****Reaction catalysed**

(9Z,11E,14Z)-(13S)-hydroperoxyoctadeca-9,11,14-trienoate <=> (9Z)-(13S)-12,13-epoxyoctadeca-9,11-dienoate + H(2)O

Cofactor(s)

Heme-thiolate.

Comment(s)

Acts on a number of unsaturated fatty-acid hydroperoxides, forming the corresponding allene oxides.

Cross-referencesPROSITE [PDOC00081](#)BRENDA [4.2.1.92](#)PUMA2 [4.2.1.92](#)PRIAM enzyme-specific profiles [4.2.1.92](#)Kyoto University LIGAND
chemical database [4.2.1.92](#)IUBMB Enzyme Nomenclature [4.2.1.92](#)IntEnz [4.2.1.92](#)MEDLINE [Find literature relating to 4.2.1.92](#)UniProtKB/Swiss-Prot [O16025](#), [AOSL_PLEHO](#); [Q40778](#), [C74A2_PARAR](#); [Q96242](#), [CP74A_ARATH](#);
[P48417](#), [CP74_LINUS](#);[View entry in original ENZYME format](#)

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